

Missoula Federal Credit Union Project

This is a ground breaking project that could potentially help to change the way construction is done worldwide with far reaching environmental benefits. This building will be replacing traditional Portland cement both structurally and astatically (i.e. footings, foundations, slabs, sidewalks, driveways, exterior classing panels, countertops and flooring). This will be the first building in the world to replace all of the concrete with recycled glass and fly ash. This new cutting edge mixture of glass and fly ash is helping on the world's resources, traditional concrete production is estimated to be consuming in the vicinity of 10% of the world's resources.

The commercial building (6,711 square feet) used over **1,000 tons** of glass and fly ash in the project. The building sets the mark in saving energy and resources. This building is projected to save:

- 48% of energy.
- \$9,931 in annual cost savings at current energy prices
- 201,990 lbs per year reduction in CO2 emissions
- 341 lbs per year reduction in NOx emissions
- 291 lbs per year reduction in SO2 emissions
- At least 75% (250 tons) of the construction debris was diverted from the landfill. Construction debris was recovered and redirected back into the manufacturing process.

Will produce at least 7.5% of its own energy requirements from solar panels

